

Post-processing Algorithm For Byte-Level File Differencing

ABSTRACT

5 Devices and methods are provided for generating difference files that include
encoded differences between byte streams of original and new file versions. Generation
of the difference files includes processing by components of an optimizing system and/or
algorithm to identify replacement content in a first area of the new byte stream. The
replacement content includes a group of bytes of the new byte stream identified as at least
10 one of byte insertions and byte replacements in a corresponding operation array. The
optimizing system identifies content similarities between the replacement content and at
least one of the original byte stream and a second area of the new byte stream. The
optimizing system generates information of the difference file by encoding information
of the content similarities.